

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P959959

Luminaire Tested: **NAV-SB1B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

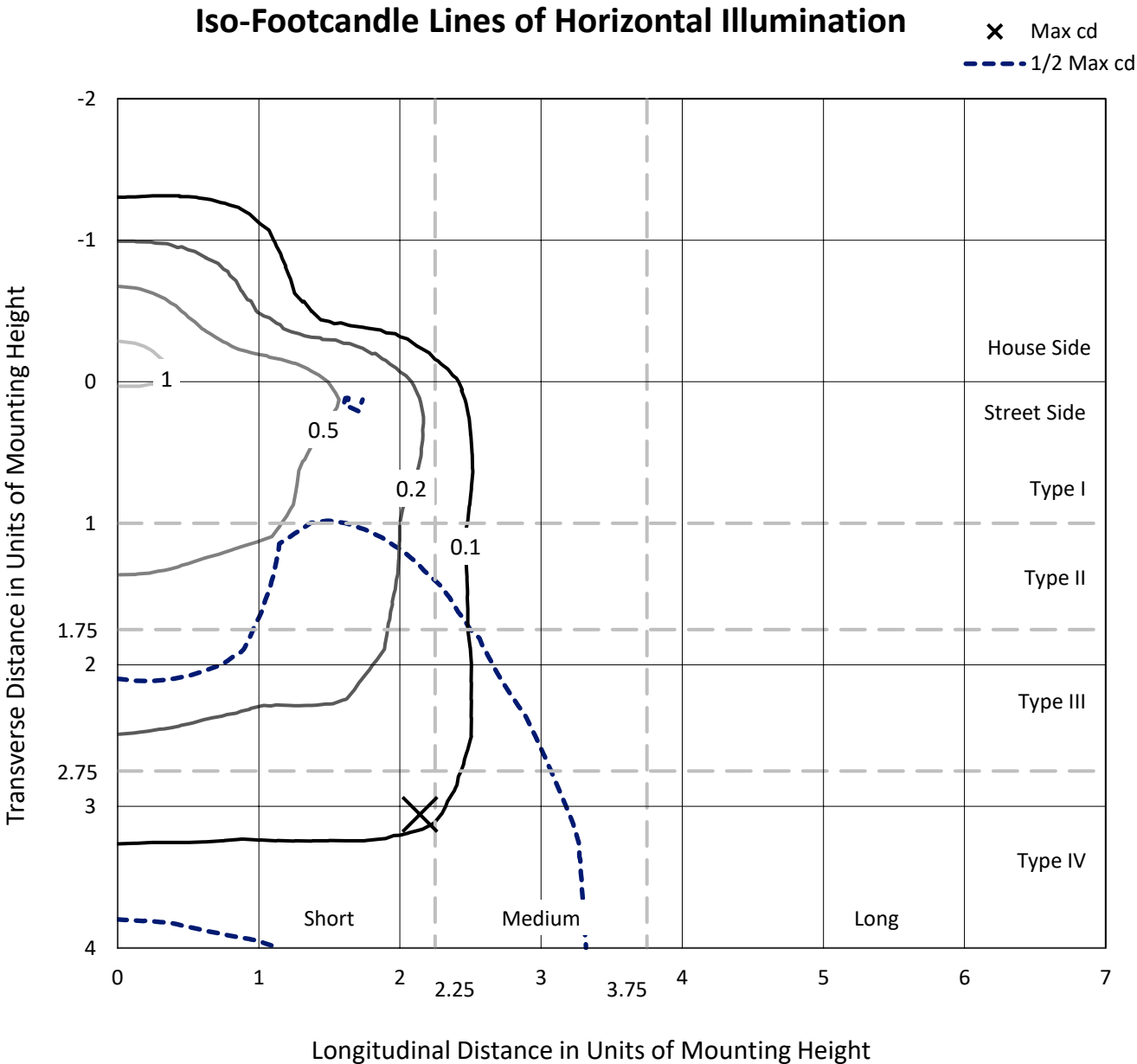
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4962 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



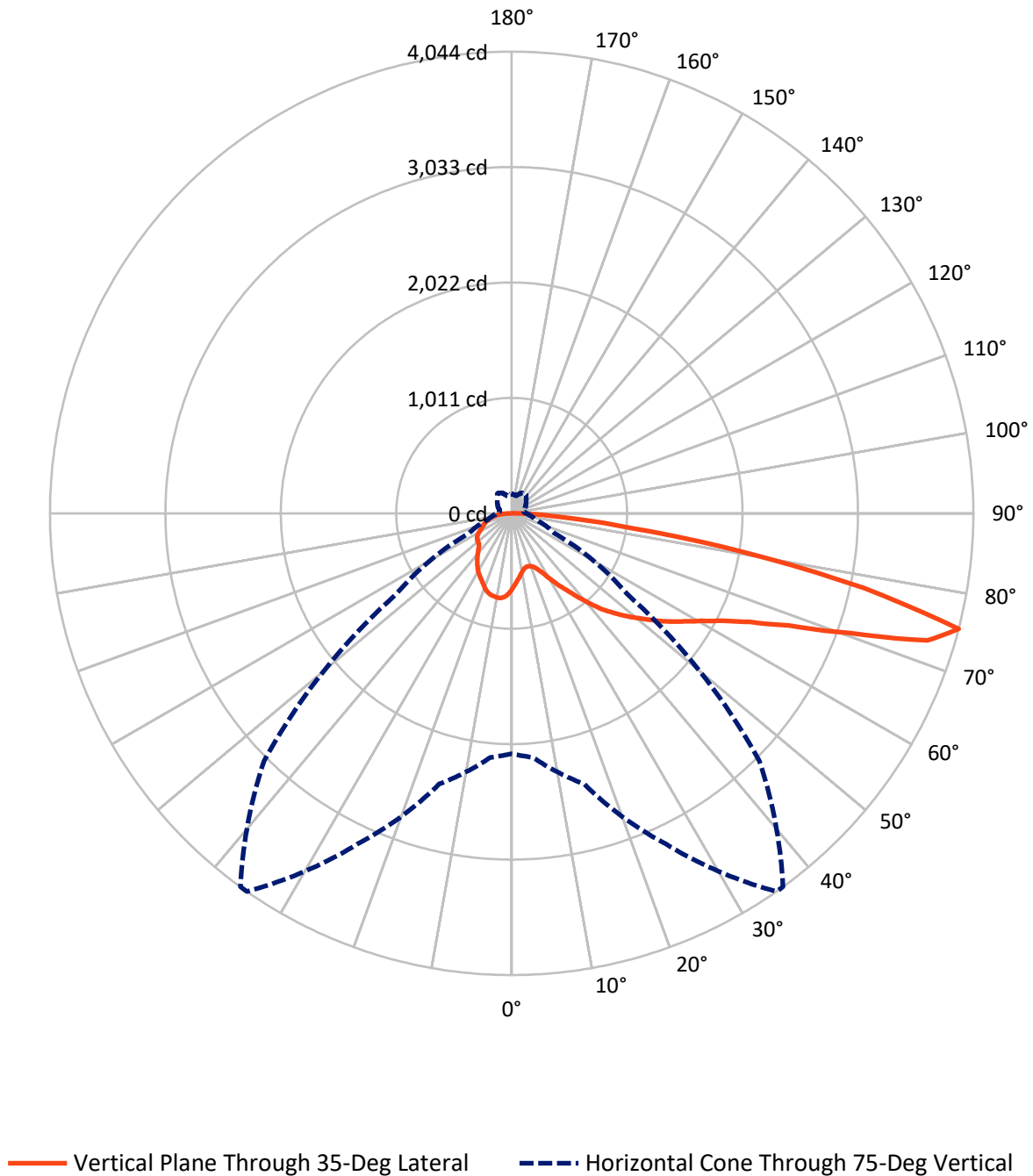
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.8	0.0	1180.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3781.2	0.0	3781.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	4962.0	0.0	4962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.3
10°-20°	180.6	3.6
20°-30°	303.2	6.1
30°-40°	471.3	9.5
40°-50°	699.5	14.1
50°-60°	965.7	19.5
60°-70°	1171.6	23.6
70°-80°	968.3	19.5
80°-90°	139.3	2.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4962.0	100.0
0°-180°	4962.0	100.0

Coefficient of Utilization



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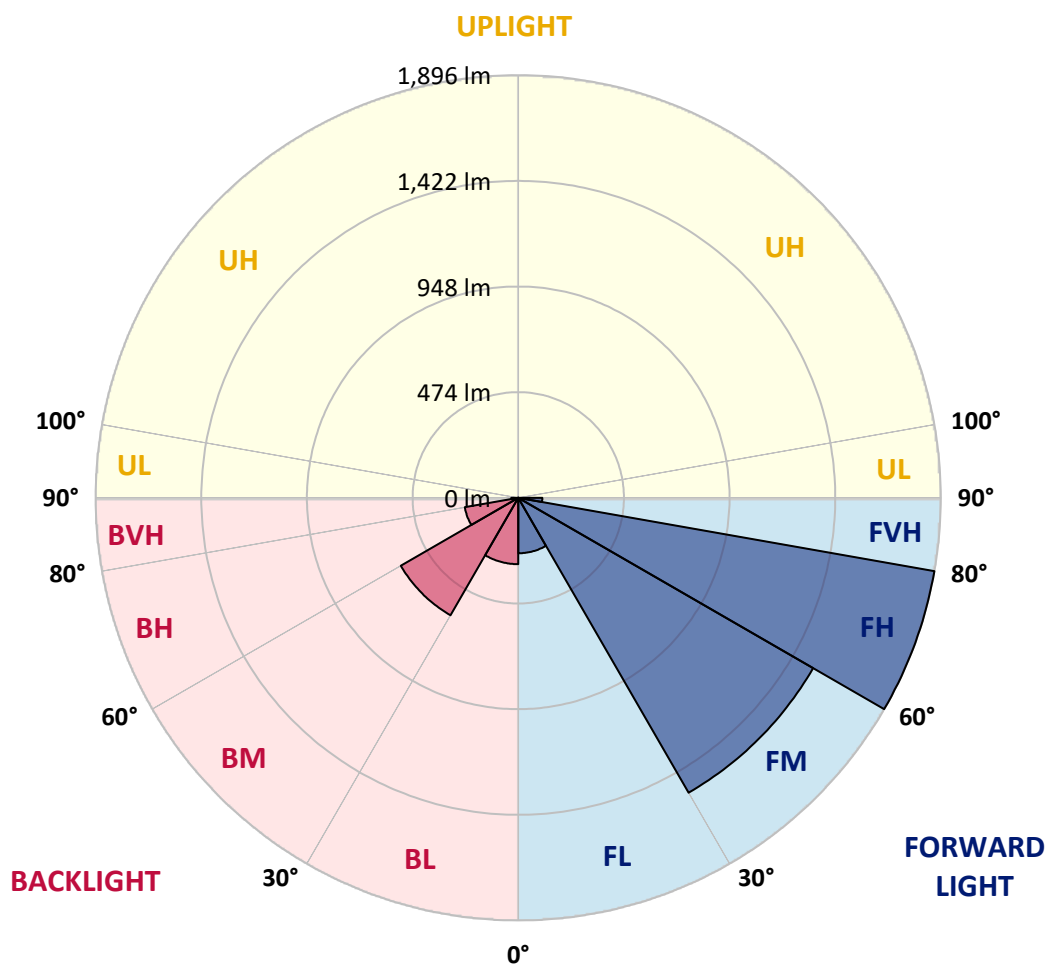
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.8	5.0			
FM	(30°-60°)	1528.0	30.8			
FH	(60°-80°)	1896.4	38.2			G2/5000
FVH	(80°-90°)	107.9	2.2			G2/225
BL	(0°-30°)	297.6	6.0	B1/500		
BM	(30°-60°)	608.4	12.3	B1/1000		
BH	(60°-80°)	243.4	4.9	B1/500		G1/500
BVH	(80°-90°)	31.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2
2.5°	609.7	613.5	615.1	614.3	618.3	617.8	623.4	630.4	640.0	649.4	663.1
5°	562.8	566.8	570.3	573.5	581.3	583.7	592.6	606.0	623.7	641.6	664.2
7.5°	519.1	522.5	527.9	533.8	546.9	549.4	564.2	585.1	609.7	636.0	667.2
10°	483.4	486.9	492.5	499.2	515.6	518.5	537.3	565.2	597.4	630.7	670.3
12.5°	468.1	469.1	472.4	479.1	493.3	495.2	515.9	547.8	585.3	626.6	675.2
15°	467.3	469.4	469.7	473.1	485.0	485.7	504.8	536.5	577.8	625.9	682.4
17.5°	475.3	476.9	474.6	476.6	486.6	487.9	503.0	531.2	575.4	629.3	694.7
20°	496.8	498.2	490.9	487.9	495.2	496.2	511.0	534.6	577.8	636.5	711.7
22.5°	542.4	543.1	525.5	513.4	513.9	514.4	527.4	548.8	587.2	649.6	733.1
25°	613.5	612.9	584.8	561.4	548.1	545.1	553.7	571.8	603.0	667.2	760.8
27.5°	696.6	692.6	664.4	629.6	600.3	596.0	594.2	602.0	625.6	690.2	794.6
30°	790.5	786.8	756.4	710.8	670.3	663.4	645.6	641.6	659.1	721.6	841.5
32.5°	893.5	891.1	854.8	799.6	745.5	737.4	707.7	696.9	710.5	769.1	906.9
35°	979.9	977.7	947.7	890.8	824.6	814.7	784.3	772.2	779.2	829.9	992.5
37.5°	1058.0	1056.9	1031.1	986.4	917.9	905.9	871.8	867.8	866.4	910.2	1096.3
40°	1130.4	1127.7	1100.8	1077.3	1026.5	1015.6	985.5	982.1	971.8	1008.9	1213.8
42.5°	1210.6	1203.7	1164.7	1153.7	1140.0	1130.9	1112.9	1113.5	1090.9	1120.2	1338.2
45°	1276.0	1272.0	1232.0	1225.6	1240.4	1236.6	1252.1	1256.2	1212.5	1236.9	1467.6
47.5°	1346.3	1342.5	1308.7	1304.2	1344.2	1345.2	1400.3	1401.6	1331.1	1358.1	1597.2
50°	1432.9	1427.6	1394.1	1399.7	1444.5	1448.5	1549.1	1540.0	1440.2	1481.2	1725.6
52.5°	1490.1	1493.3	1486.0	1495.2	1556.4	1560.2	1695.6	1672.3	1548.3	1602.8	1851.7
55°	1532.2	1538.6	1561.2	1582.1	1674.3	1678.1	1833.7	1798.1	1637.9	1715.4	1970.3
57.5°	1586.4	1577.3	1619.4	1660.2	1786.5	1796.4	1968.1	1919.3	1717.3	1812.5	2051.5
60°	1664.2	1657.7	1690.4	1750.8	1912.0	1927.9	2110.3	2028.5	1775.5	1889.5	2067.3
62.5°	1821.9	1805.8	1811.0	1864.3	2070.3	2091.2	2270.7	2123.7	1804.5	1919.5	1982.6
65°	2057.7	2030.1	2004.3	2041.4	2293.2	2313.8	2451.8	2198.5	1793.7	1861.4	1757.6
67.5°	2354.6	2327.3	2295.6	2330.5	2621.5	2637.9	2675.2	2240.6	1709.3	1637.1	1359.8
70°	2599.6	2589.4	2627.2	2770.7	3145.9	3146.5	2961.7	2205.8	1477.7	1160.7	786.8
72.5°	2567.1	2561.0	2760.2	3203.9	3807.0	3792.7	3232.8	1941.9	995.5	523.6	294.8
75°	2106.0	2145.9	2454.7	3196.2	4044.3	4042.5	3066.8	1234.5	411.7	217.0	152.3
77.5°	1129.3	1192.6	1593.7	2359.8	3157.2	3204.8	2156.2	431.8	176.8	139.0	105.4
80°	368.3	423.5	635.2	1201.5	2051.5	2042.7	924.1	169.5	121.0	98.4	73.0
82.5°	156.4	162.9	283.8	567.3	1052.9	1036.5	294.3	97.4	85.1	67.3	45.1
85°	61.2	68.4	125.3	262.3	456.0	446.1	106.2	48.3	54.4	44.0	26.9
87.5°	20.1	24.4	44.8	89.9	141.9	136.8	26.0	16.6	23.6	20.1	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2
2.5°	666.9	671.2	676.3	683.8	690.2	695.6	701.2	704.7	706.0	710.0	709.8
5°	671.7	681.1	693.7	706.0	718.1	725.3	731.7	735.0	737.9	740.0	740.7
7.5°	679.8	691.8	711.7	727.7	737.9	743.8	748.1	747.0	748.1	748.7	749.5
10°	686.7	703.6	727.2	742.5	750.3	750.5	749.5	745.7	743.8	744.2	744.7
12.5°	695.1	713.8	739.3	752.1	754.3	748.4	743.8	737.4	735.0	733.9	733.4
15°	706.3	727.7	752.5	757.3	751.9	744.4	736.6	726.1	720.8	716.5	717.8
17.5°	720.0	743.5	762.6	759.1	747.6	735.2	722.6	706.8	695.9	691.3	691.6
20°	739.0	760.2	770.4	755.1	737.7	718.9	697.4	678.1	667.9	663.4	662.9
22.5°	762.1	782.5	777.9	748.1	723.4	693.4	666.6	652.4	647.3	644.0	644.6
25°	789.8	807.2	783.3	737.9	700.1	659.6	639.0	634.4	632.0	629.6	629.6
27.5°	825.6	835.1	787.3	722.9	663.7	623.7	616.1	616.9	616.1	612.1	612.9
30°	873.1	871.2	791.1	698.5	621.8	591.2	591.7	595.2	595.7	593.1	594.4
32.5°	935.6	916.6	792.9	666.9	581.8	562.8	563.3	567.0	569.8	565.2	567.3
35°	1011.3	969.4	790.0	627.2	550.9	535.7	531.7	532.7	533.5	529.2	532.2
37.5°	1099.5	1028.7	776.8	583.1	525.5	509.1	500.5	493.3	489.0	485.0	487.7
40°	1196.4	1093.4	752.7	540.3	497.0	480.9	468.1	454.4	439.9	434.6	437.0
42.5°	1297.8	1159.9	723.4	499.2	464.3	451.2	437.5	417.7	396.0	384.9	386.3
45°	1402.9	1228.1	694.7	458.7	430.8	425.2	409.4	385.5	361.8	347.9	346.9
47.5°	1505.9	1292.4	652.6	417.9	399.4	405.6	393.3	371.3	344.9	323.0	320.5
50°	1604.3	1352.8	583.7	376.6	373.9	399.6	387.9	356.2	326.2	298.1	295.6
52.5°	1702.0	1401.6	495.5	339.1	360.3	398.1	380.9	346.0	309.2	279.8	276.5
55°	1784.9	1426.8	410.4	306.9	340.4	384.4	372.6	333.9	285.5	254.0	251.3
57.5°	1832.1	1406.4	339.6	275.2	313.0	361.8	358.3	308.2	257.0	232.9	229.6
60°	1811.7	1323.8	281.7	247.6	287.0	337.4	333.7	282.7	235.2	212.5	209.2
62.5°	1699.3	1166.3	235.7	223.4	263.4	312.5	309.0	263.1	218.6	196.6	193.1
65°	1472.9	948.7	200.1	203.4	239.5	282.5	287.5	246.8	205.5	184.0	180.5
67.5°	1123.4	687.3	172.2	185.9	216.2	253.0	267.7	235.0	194.4	174.0	170.9
70°	640.3	390.3	148.6	169.0	195.6	225.6	252.5	225.6	182.7	165.7	163.6
72.5°	242.7	179.2	128.5	152.1	175.7	202.5	235.5	210.8	169.0	156.4	154.3
75°	129.6	109.2	108.1	132.2	152.9	180.0	214.3	196.4	158.8	165.2	170.6
77.5°	88.3	77.3	90.4	113.2	127.9	155.1	191.8	174.4	137.7	137.0	126.4
80°	61.2	54.7	73.5	91.2	99.0	130.4	167.4	149.6	112.1	104.7	100.0
82.5°	36.8	35.7	54.9	68.2	70.0	100.6	138.7	125.6	91.7	79.9	80.5
85°	20.1	21.2	35.2	40.0	40.8	70.3	108.6	97.1	70.5	59.2	59.9
87.5°	5.6	7.3	12.9	15.8	19.6	36.5	64.7	57.7	35.4	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)